Mass Percentage	Paint A	Paint A Paint B	Paint C
Styrene Acrylate Resin Varnish	36	36	36
1/2 Cellulose Acrylate Butyrate (20%)	25	-	ł
1/4 Nitrocellulose Varnish (25%)	1	20	1
Vinyl Acetate Vinyl Chloride Copolymerization Resin Varnis	,	ı	25
Almi Paste	10	10	10
Ethyl acetate	15	15	15
Butanol	10	10	10
MIBK	4	4	4
Leveling Agent	0.3	0.3	0.3
Antifoamer	0.1	0.1	0.1
Thinner	100	100	100

Material	Material Test Piece	77	Za	9	7
	Unused Material	0 set	0 set	0 set	0 set
ABC	Paint A	+0.37	+0.05	-0.57	0.68
3	Paint B	-8.56	+0.87	+25.23	26.65
	Paint C	-5.67	+0.22	+16.00	16.97
	Unused Material	0 set	0 set	0 set	0 set
HIDO	Paint A	-0.15	-0.22	+0.61	0.62
) = -	Paint B	-7.06	+0.67	+20.60	21.78
	Paint C	-9.41	-0.42	+12.46	15.16

Note: The color of the unused material was set as ZERO.

TABLE 3

Evaluation Item	Sample A	Sample B	Sample C
Izod Impact Strength	16.8	22.1	16.6

TABLE 4

Evaluation Item	Sample A	Sample B	Sample C
Izod Impact Strength	6.8	8.3	6.6

				Dronion			
Cellulose	Viscosity	Acetyl group	Butyryl group	riching ponton	Hydroxyl group	Melting range	
derivative	(sec)	(sec) content (%) content (%)	content (%)	group content	content (%) (°C)	(၃)	ပ္စ
CAB-1	0.01	2.0	53.0		1.5	127-142	85
CAB-2	1.9	3.0	20.0		1.7	135-150	115
CAB-3	0.5	13.5	38.0		1.3	155-165	130
CAB-4	0.1	17.5	32.5		1.3	165-175	127
CAP-1	0.2	9.0		42.5	5.0	188-210	159
CAP-2	0.4	2.5		45.0	2.6	188-210	142
Cellulose nitrate-1	1/4						
Cellulose nitrate-2	20						

<u>@</u>																	3
Paint	45	?	0	0	0	0	0	0	20	0	2	10	10	2	2	0.3	100.3
Paint (1)	45	2	0	0	0	0	0	0	20	0	5	10	10	5	5	0.3	100.3
Paint (6)	45	13	0	0	0	0	0	20	0	0	5	10	10	5	5	0.3	100.3
Paint (5)	45	2	0	0	0	0	70	0	0	0	5	10	10	2	5	0.3	100.3
Paint (4)	45	+6	0	0	0	20	0	0	0	0	5	10	10	2	5	0.3	100.3
Paint ③	45	10	0	0	20	0	0	0	0	0	5	10	10	2	5	0.3	100.3
Paint (2)	45	70	0	70	0	0	0	0	0	0	9	10	01	2	2	0.3	100.3
Paint (1)	45	- 12	20	0	0	0	0	0	0	0	2	01	10	2	2	0.3	100.3
Paint A	57	2	0	0	0	0	0	0	0	0	5	01	01	S	Ŝ	6.0	80.3
Raw materials (wt %)	Styrene modified acrylic resin 50	wt% varnish *'	CAB-1*2	CAB-2*3	CAB-3*4	CAB-4*5	CAP−1*6	CAP-2*7	Cellulose nitrate -1*8	Cellulose nitrate -2*9	Adipate ester*10	Almi paste***	Ethyl acetate	Butanol	MIBK	Leveling agent*12	The sum total
Rav	Styrene n				-	Cellulose	מפוואמרואפ	,			∀					רו	

*1: Styrene modified acrylic resin whose name is ACRYDIC A-157 was manufactured by DAINIPPON INK AND CHEMICALS. INCORPORATED.

*2 to 7 : Cellulose derivatives, manufactured by EASTMAN CHEMICAL COMPANY, were dissolved into ethyl acetate / MIBK = 1/1 solvent.

*8 and 9: Cellulose nitrate was manufactured by Asahi Kasei corpration.

*10: Adipate ester whose name is HORISYZER-W-1820 was manufactured by DAINIPPON INK AND CHEMICALS. INCORPORATEI

*11: Almi paste whose name is SL440EB was manufactured by SHOWA ALMINIUM K.K.. *12: Leveling agent whose name is BYK-310 was manufactured by BYK CHEMICAL Inc.

TABLE 7

Resin	Paint ①	Paint ②	Paint ③	Paint 4	Paint (5)	Paint 6	Paint (1)	Paint ®
PS	0	0	0	0	0	0	0	0
ABS	0	0	0	0	0	0	0	0

Note O: Good adhesion

TABLE 8

Resin	Items	Paint ①	Paint (2)	Paint ③	Paint 4	Paint (5)	Paint (6)	Paint (1)	Paint ®
٥٥	Yellowing color	0	0	0	0	0	0	×	×
5	Silver	0	0	0	0	0	0	×	0
VDV	Yellowing color	0	0	0	0	0	0	×	×
202	Silver	0	0	0	0	0	0	×	0
Recy	Recycle evaluation	0	0	0	0	0	0	×	×

Notes O: Good recyclable resin x: Not good recyclable resin

TABLE 9

Resin	No paint	Paint A	Paint (1)	Paint (2)	Paint ③	Paint 4	Paint 5	Paint (6)	Paint (7)	Paint ®
PS	9.8	8.4	8.4	8.5	8.3	8.4	8.5	8.5	8.3	8.2
ABS	19.6	19.5	19.3	19.6	19.6	19.5	19.3	19.2	18.9	19.1

Unit: kg/cm²

Notes PS: Unnotched ABS: Notched